**Maths Inquiry: Probability Portfolio Task**

Names:

**INSTRUCTION 1:**

**In pairs you will put 20 unifix blocks into your paper bag. You will need to have the following in your bag.**

|  |  |
| --- | --- |
| Colour | How many? |
| Red | 10 |
| Blue | 3 |
| Yellow | 4 |
| Black | 1 |
| Green | 2 |
| Total Number of Blocks = 20 | |

**a)** What are the chances of pulling out a red unifix block? How would you say   
 this as a percentage?  
  
Answer:

(50%) 50/50

**b)** What colours are less likely to be chosen out of the bag? Why?

Black and green because there are not as many of them as the others.

Answer:

**INSTRUCTION 2:   
You will pull 14 blocks out of the bag. Each person will have 7 turns. After you have done this, group the colours together that you have drawn out of the bag. Record how many of each colour you have in the table below.**

|  |  |
| --- | --- |
| Colour | How many? |
| Red | 6 |
| Blue | 2 |
| Yellow | 3 |
| Black | 1 |
| Green | 2 |
| Total Number of Blocks = 14 | |

Part 2: Representing Date using graphs.

**INSTRUCTION 1:   
You are going to use Microsoft Excel to represent your data and produce a line graph and a bar graph. After completing your graphs in Microsoft Excel, copy and paste them into this document so you can analyse your data.**

Our Bar Graph

Our Line Graph

Explain why you think you got the results you got.

I think we got the results we got because of CHANCE... we got more red because there was more in the bag and we got the only black to chance!!!!!

Which graph would you prefer to use and why?

;Bar Graph- because it’s easier to understand if you are new to making/reading graphs.